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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/737,196	12/16/2003	Matthias Ruff	AVA 0001 PA/31557.2	5516
7:	590 10/02/2006		EXAMINER	
DINSMORE & SHOHL LLP			NGUYEN, KHANH V	
Suite 500 One Dayton Ce	entre		ART UNIT	PAPER NUMBER
Dayton, OH			2817	

DATE MAILED: 10/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summers	10/737,196	RUFF, MATTHIAS	
Office Action Summary	Examiner	Art Unit	
	Khanh V. Nguyen	2817	
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAL AND ADDRESS OF THIS COMMUNICAL AND ADD	ATION.  ly be timely filed  IS from the mailing date of this communication  NDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 16	December 2003		
<u> </u>	is action is non-final.		
3) Since this application is in condition for allow		s prosecution as to the merits is	2
closed in accordance with the practice under	•	• •	•
Disposition of Claims	Expante quayre, root e.e.	11, 100 0.0. 210.	
·			
<ul> <li>4)  Claim(s) 1-10 is/are pending in the applicatio</li> <li>4a) Of the above claim(s) is/are withdrawith</li> </ul>			
5) Claim(s) is/are allowed.	awii iioiii consideration.		
6)⊠ Claim(s) <u>1-10</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subjected to.	or clastica requirement		
o) are subject to restriction and	or election requirement.		
Application Papers			
9) The specification is objected to by the Examir	ner.		
10)⊠ The drawing(s) filed on 16 December 2003 is	/are: a) ☐ accepted or b) ⊠ o	bjected to by the Examiner.	
Applicant may not request that any objection to th	e drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	ction is required if the drawing(s	is objected to. See 37 CFR 1.121(c	d).
11) ☐ The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	•	19(a)-(d) or (f).	
1. Certified copies of the priority docume			
2. Certified copies of the priority docume			
3. Copies of the certified copies of the pri	•	eceived in this National Stage	
application from the International Bure	, ,,,		
* See the attached detailed Office action for a lis	st of the certified copies not re	ceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Su		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		Mail Date  ormal Patent Application	
Paper No(s)/Mail Date	6) Other:		

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#### **DETAILED ACTION**

## **Drawings**

Figures (1 and 2) should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### Claim Objections

Claim 7 is objected to because of the following informalities: "claim 1" should correctly be -- claim 6 --. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

<sup>(</sup>b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi et al. (4,229,619).

Regarding claims 1, 6, Takahashi et al. (Fig. 1) disclose a multi way speaker system includes an amplifier comprising: a signal input connection (10), a power amplifier (12) which amplifies a signal coupled in by way of the signal input connection, filters (14, 16, 18) formed a passive frequency divider which divides the signal amplified by the power amplifier into at least two channels, and at least two electroacoustic transducers (24, 26, 28) or at least two output connections for electroacoustic transducers which are each connected to a respective channel made available by the frequency divider, see col. 2, lines 4-27), wherein a passive negative feedback (34, 36, 38) is provided between at least one output of the frequency divider and the input of the power amplifier (12).

Regarding claims 2, 7, wherein the power amplifier is in the form of a differential amplifier (12) and the signal input connection is connected to the first input (+) of the differential amplifier and at least one channel made available by the frequency divider and preferably all channels are connected by way of a respective ohmic resistor to the second input (-) of the differential amplifier (12).

Regarding claims 3, 8, wherein the resistance values by way of which the channels made available by the frequency divider are connected to the second input (-) of the differential amplifier are different.

Regarding claims 4, 9, wherein the second input of the differential amplifier is connected to earth by way of an ohmic resistor (34, 36, 38).

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Regarding claims 5, 10, wherein the second input of the differential amplifier is connected to earth by way of an ohmic resistor (34, 36, 38).

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional references (Yen (5,399,986); Kim (5,530,770); Su (6,674,866)) show further analogous prior art circuitry audio amplifier having multiple speakers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KHANH V. NGUYEN PRIMARY EXAMINER